

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/04333

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl' D01F8/04, G09F3/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' D01F8/04, G09F3/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Toroku Jitsuyo Shinan Koho	1994-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 11-107109 A (TEIJIN LTD., NISSAN MOTOR CO., LTD., TANAKA KIKINZOKU KOGYO KABUSHIKI KAISHA), 20 April, 1999 (20.04.99), Full text; Fig. 1 (Family: none)	1, 3-9, 11, 14, 17-24 2, 10, 12-13, 15-16
X	EP 1006221 A1 (NISSAN MOTOR CO., LTD., TANAKA KIKINZOKU KOGYO KABUSHIKI KAISHA, TEIJIN LTD.), 07 June, 2000 (07.06.00), Full text; Figs. 1 to 3 & JP 2000-170028 A Full text; Figs. 1 to 3	2, 10 12-13 1, 3-9, 11, 14-24
X	JP 6-8679 A (Mitsubishi Paper Mills Ltd.), 18 January, 1994 (18.01.94), Column 3, line 29 to column 4, line 32; Fig. 1 (Family: none)	15 23

Further documents are listed in the continuation of Box C. See patent family annex.

• Special categories of cited documents:	
"A"	document defining the general state of the art which is not considered to be of particular relevance
"E"	earlier document but published on or after the international filing date
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"O"	document referring to an oral disclosure, use, exhibition or other means
"P"	document published prior to the international filing date but later than the priority date claimed
"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"&"	document member of the same patent family

Date of the actual completion of the international search 30 July, 2003 (30.07.03)	Date of mailing of the international search report 12 August, 2003 (12.08.03)
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Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 4-174707 A (Toray Industries, Inc.), 22 June, 1992 (22.06.92), Full text; Figs. 1 to 2 (Family: none)	16
A		24
Y	US 5974150 A (TRACER DETECTION TECHNOLOGY CORP.), 26 October, 1999 (26.10.99), Full text; Figs. 1 to 3 & JP 2001-518414 A Full text; Figs. 1 to 3 & WO 99/17486 A1	12-13 1-11, 14-24
A	JP 2000-226737 A (Toray Industries, Inc.), 15 August, 2000 (15.08.00), Column 3, lines 17 to 35 (Family: none)	7
A	JP 2000-199171 A (Toyobo Co., Ltd.), 18 July, 2000 (18.07.00), Column 5, lines 4 to 40; Fig. 2 (Family: none)	20